

ABSTRACT OF THE DISCLOSURE

A resonant cavity device comprises a waveguide body having a lateral wall extending in a longitudinal direction, having a first coefficient of thermal expansion, and delimiting a resonant cavity in conjunction with opposite first and second end walls. The first end wall has a second coefficient of thermal expansion lower than the first coefficient and has an internal face fastened to a first assembly comprising at least one main plate having a third coefficient of thermal expansion lower than the first coefficient and dimensions in a plane perpendicular to the longitudinal direction less than but substantially equal to those of the cavity. An intermediate member has a fourth coefficient of thermal expansion lower than the third coefficient and an end portion fixed to the main plate which, in the event of a temperature variation, converts a dimensional variation in a direction perpendicular to the longitudinal direction into a dimensional variation in the longitudinal direction inducing longitudinal translation of the main plate inside the cavity.